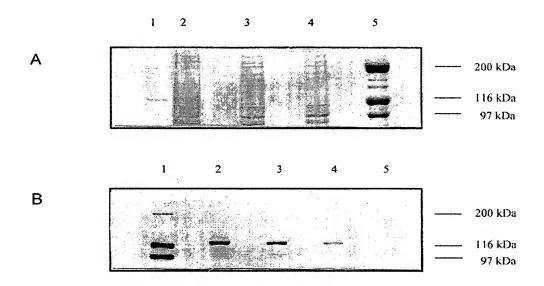


mutant type II Legend: - protein

Sequence:

1 MIASHMIACL FTELNONOVO KVDQFLYHMR LSDETLLEIS RRFRKEMEKG LGATTHPTAA 61 VKMLPTFVRS TPDGTEHGEF LALDLGGTNF RVLRVRVTDN CLQRVEMENQ IYAILEDIMR 121 GSGTQLFDHI AECLANFMDK LQIKEKKLPL GFTFSFPCHQ TKLDESFLVS WTKGFKSSGV 181 ECRDVVDLIR KVIQRRGDFD IDIVAVVNDT VGTMMTCGYD DQNCEIGLIV GTGSNACYME 241 EMRHIDMVEC DEGRMCINME WGAFGDDGTL NDIRTEFDRE IDMGSLNPCK QLFEKMISCM 301 YMGELVRLIL VKMAKAELLF QGKLSPELLT TGSFETKDVS DIEEDKDGIE KAYQILMRLG 361 LNPLQEDCVA THRICQIVST RSASLCAATL AAVLURIKEN KCEERLRSTI GVDGSVYKKH 421 PHFAKRLHKA VRRLVPDCDV RFLRSEDGSC KGAAMVTAVA YRLADQHRAR QKTLESLKLS 481 HEQLLEVKRR MKVEMEQGLS KETHAVAPVK MLPTYVCATP DGTEKGDFLA LDLGGTNFRV 541 LLVRVRNGKR RGVEMHNKIY SIPQEVMHGT GEELFDHIVQ CIADFLEYMG MKGVSLPLGF 601 TESEPCQQNS LDQSILLKWT KGFKASGCEG EDVVTLLKEA IHRREEFDLD VVAVVNDTVÇ 661 TMMTCGYEDP HCEVGLIVGT GSNACYMEEM RNVELVDGEE GRMCVNMENG AFGDNGCLDD 721 LRTVFDVAVD ELSLNPGKOR FEKMISGMYL GEIVRNILID FTKRGLLFRG RISERLKTRG 781 ISETKFLSQI ESDCLALLQV RAILRHLGLE STCDDSIIVK EVCTVVARRA AQLCGAGMAA 841 VVDKIRENRG LDNPKVTVGV DGTLYKLHPH FAKVMHETVR DLAPKCDVSF LESEDGSGKG 901 AALITAVACR IREAGQR



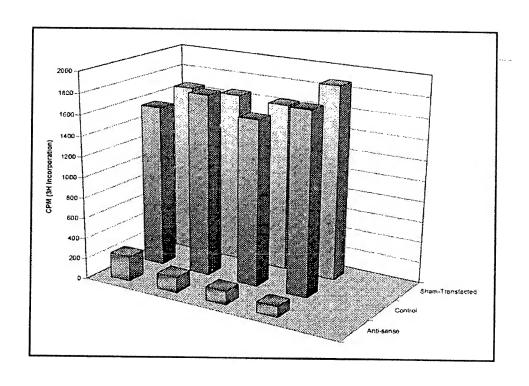
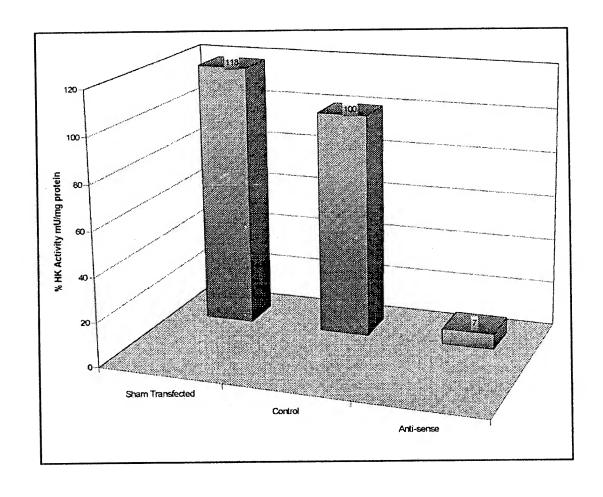


FIGURE 5



AF027179 Rattus norvegicus mutant type II hexokinase mRNA, complete cds

```
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  aaggttgacc aattteteta ccacatgegt eteteagatg agaeeettet ggagatttet 121
  aggeggttee ggaaggagat ggagaaaggg etaggageta ceaegeaeee tacageaget 181
  gtgaaaatgt tgcctacctt tgtgaggtca actccggatg ggacagaaca tggggagttc 241
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  ggcctccaga gagtggagat ggagaaccag atctacgcca tccttgagga catcatgcgg 361
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  ctacaaatca aagagaagaa gctccctctg ggtttcacct tctcgttccc ctgccaccag 481
 acaaaactgg atgagagttt tttggtctcg tggactaagg ggttcaagtc cagtggcgtg 541
 gaaggcagag atgtggtgga cctgatccgg aaggttatcc agcgcagagg ggactttgac 601
 attgacattg tggccgtggt gaatgacaca gttgggacca tgatgacttg tggctatgat 661
 gatcagaact gcgagattgg tctcattgtg ggcactggca gcaacgcctg ctacatggag 721
 gaaatgcgtc atattgacat ggtggaggga gatgagggc gcatgtgcat caacatggag 781
 tggggagcct ttggggacga cggtacactc aatgacatcc gaaccgagtt tgaccgagag 841
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```

FIGURE 7A

AF113968 Cloning vector pLXRN, complete sequence

```
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```

FIGURE 7B

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aaaaaaaaaa	atgaaagacc	ccacctgtag	gtttggcaag	ctagcttaag	taacgccatt	3541
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gataataccg	cgccacatag	cagaacttta	aaagtgctca	tcattggaaa	acgttcttcg	

FIGURE 7C

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6361	gtgccacctg	acgtctaaga	aaccattatt	atcatgacat	taacctataa	aaataggcgt
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FIGURE 8A

Accession Number NM 012734 for Rattus norvegicus Hexokinase 1 (Hk1), mRNA

```
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gctctctgat gagattctga tagatatcct gacacgattc aagaaagaga tgaagaatgg 241
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cattccggac ggctcagaaa agggggattt cattgccctg gatctcggcg ggtcttcctt 361
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cgctgactgc ctgggagact tcatggagaa aaagaagatc aaggacaaga agttacccgt 541
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FIGURE 8B

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